	Application No.	Applicant(s)
Notice of Allowability	Application No.	Applicant(s)
	09/641,553	WANG ET AL.
	Examiner	Art Unit
	Bharat N. Barot	2155
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap ) or other appropriate communication (IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. $\boxtimes$ This communication is responsive to <u>RCE filed with the an</u>	mendment on 07/28/2006.	
2. X The allowed claim(s) is/are <u>7-8, 18, 20-21, and 23-31 re-n</u>	umbered as 1-14.	
<ul> <li>3. Acknowledgment is made of a claim for foreign priority u</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> </ul>	e been received.	
<ol><li>Copies of the certified copies of the priority do</li></ol>	ocuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv	nitted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF ation is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	
(a) Including changes required by the Notice of Draftsper		948) attached
1)  hereto or 2)  to Paper No./Mail Date	٠	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of	1.84(c)) should be written on the drawing the header according to 37 CFR 1.121(	ngs in the front (not the back) of d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>	osit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 D Nation of Information	
<ol> <li>Notice of References Cited (PTO-092)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	5. ☐ Notice of Informal F	, · ·
_	Paper No./Mail Da	<ol> <li>Interview Summary (PTO-413),</li> <li>Paper No./Mail Date <u>08/28/2006</u>.</li> </ol>
<ul> <li>Information Disclosure Statements (PTO/SB/08),</li></ul>	7. 🛭 Examiner's Amendr	ment/Comment
	8. Examiner's Stateme	ent of Reasons for Allowance
	9.	Shorat Bost.
	PF	BHARAT BAROT RIMARY EXAMINER
		(571) 272-3979

## **EXAMINER'S AMENDMENT**

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with L. Alan Collins (Reg. No. 57,646) on August 28, 2006.
- 3. The application has been amended as follows:

IN THE CLAIMS: Claims 7, 18, 20, 23, and 24 have been amended; and claims 10 and 22 have been canceled.

# 1-6.(Canceled)

**7.(Currently Amended)** In a distributed system including a plurality of redundant components, a method for performance leader election by a first redundant component, comprising:

multicasting age information, wherein the age information includes a duration of time on-line, particular to the first redundant component to all other components in the plurality of redundant components, the age information relating to one or more criteria according to which a currently-active leader component is to be determined;

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receiving age information from each other component in the plurality of redundant components particular to each component and relating to the one or more criteria according to which the currently-active leader component is to be determined; and determining whether the first redundant component is the currently-active leader component by comparing the age information particular to the first redundant

component with the age information received from each of the redundant components,

wherein if the first redundant component determines that it is not the currentlyactive leader component, the first component knows one of the components in the plurality of redundant components is the currently-active leader component.

**8.(Previously Presented)** The method of claim 7, further comprising periodically repeating the method.

#### 9-17.(Canceled)

**18.(Currently Amended)** The method of claim 40 7, wherein the determining whether the first component is the currently-active leader component comprises determining whether the first component is an oldest component.

#### 19.(Canceled)

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**20.(Currently Amended)** In a computer system including a plurality of redundant components, a method for electing a currently-active leader component, comprising:

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multicasting currently-active leader election criteria information among all the plurality of redundant components; and

at each component in the plurality of redundant components:

- a) determining whether the component is the currently-active leader component, based on a currently-active leader election criteria information received from all the other components in the plurality of redundant components, wherein the currently-active leader election criteria information includes age information, wherein the age information includes a duration of time on-line; and
- b) repeating the determining whenever the component detects an occurrence of a failure that has a potential to affect the currently-active leader component.
- **21.(Previously Presented)** The method of claim 20, further comprising: periodically repeating the method.

### 22.(Canceled)

**23.(Currently Amended)** The method of claim 22 20, wherein the determining whether the component is the currently-active leader component comprises:

determining whether the component is an oldest component; and

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if the component determines that it is the oldest component, concluding that the component is the currently-active leader component.

- **24.(Currently Amended)** The method of claim 22 20, wherein the multicasting age information includes multicasting information regarding how long each component in the plurality of redundant components has been online.
- **25.(Previously Presented)** The method of claim 20, wherein the redundant components are redundant instances of a daemon.
- **26.(Previously Presented)** The method of claim 25, wherein the daemon is a system management daemon.
- 27.(Previously Presented) The method of claim 25, wherein the daemon is a power line monitoring daemon.
- **28.(Previously Presented)** The method of claim 20, wherein the redundant components are redundant executing processes.
- **29.(Previously Presented)** The method of claim 20, wherein the redundant components are redundant class objects.

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30.(Previously Presented) The method of claim 20, wherein the redundant

components are redundant devices in an automation system.

31.(Previously Presented) The method of claim 20, wherein the redundant

components are redundant nodes in a network.

4. Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Examiner's Amendment and/or Statement of Reasons for Allowance."

**CONTACT INFORMATION** 

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to **Bharat Barot** whose Telephone Number is (571)

**272-3979**. The examiner can normally be reached on Monday-Friday from 9:30 AM to

6:00 PM. Most facsimile-transmitted patent application related correspondence is

required to be sent to the Central FAX Number (571) 273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Saleh Najjar, can be reached at (571) 272-4006.

Patent Examiner Bharat Barot

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August 29, 2006

BHARAT BAROT

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